## SEQUENCE LISTING

<110> Renner, Wolfgang A.  Hennecke, Frank Nieba, Lars Bachmann, Martin	
<120> Ordered Molecular Presentation of Antigens, Method of Preparation and Use	
<130> 1700.0030002	
<140> US 09/449,631 <141> 1999-11-30	
<150> US 60/110,414 <151> 1998-11-30	
<150> US 60/142,778 <151> 1999-07-08	
<160> 88	
<170> PatentIn Ver. 2.1	
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<220> <223> Description of Artificial Sequence: Primer	
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<223> Description of Artificial Sequence: Primer
<400> 4
                                                                   25
ggcactcacg gcgcgcttta caggc
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aagcatgctg cacgcgtgtg cggtggtcgg atcgcccggc
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gggtctagat tcccaaccat tcccttatcc aggctttttg acaacgctat gctccgcgcc 60
catcgtctgc accagctggc ctttgacacc
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gctggtttcg ctaccgtagc gcaggccttc ccaaccattc ccttatcc
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<210> 11 <211> 41 <212> DNA <213> Artificial Sequence	
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<400> 13 aggaggtaaa aaacg	15

<210> 14

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<223> Description of Artificial Sequence: signal peptide
<400> 14
Met Lys Lys Thr Ala Ile Ala Ile Ala Val Ala Leu Ala Gly Phe Ala
Thr Val Ala Gln Ala
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<210> 15
<211> 46
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<223> Description of Artificial Sequence: modified Fos
      construct
<400> 15
Cys Gly Gly Leu Thr Asp Thr Leu Gln Ala Glu Thr Asp Gln Val Glu
Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu
                                 25
Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala His Gly Gly Cys
                             40
<210> 16
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<400> 16
Ala Ala Ser Gly Gly
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<400> 17
Gly Gly Ser Ala Ala Ala
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<210> 18

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<211> 256
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Fos fusion construct
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gaattcagga ggtaaaaaac gatgaaaaag acagctatcg cgattgcagt ggcactgcct 60
ggtttcgcta ccgtagcgca ggcctgggtg ggggcggccg cttctggtgg ttgcggtcgt 120
ctgaccgaca ccctgcaggc ggaaaccgac caggtggaag acgaaaaatc cgcgctgcaa 180
accgaaatcg cgaacctgct gaaagaaaaa gaaaagctgg agttcatcct ggcggcacac 240
ggtggttgct aagctt
<210> 19
<211> 52
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Fos fusion construct
<400> 19
Ala Ala Ala Ser Gly Gly Cys Gly Gly Leu Thr Asp Thr Leu Gln Ala
Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile
             20
Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala
His Gly Gly Cys
     50
<210> 20
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      construct
<220>
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<222> (22)..(240)
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gaattcagga ggtaaaaaac g atg aaa aag aca gct atc gcg att gca gtg
                         Met Lys Lys Thr Ala Ile Ala Ile Ala Val
                                                                    99
gca ctg gct ggt ttc gct acc gta gcg cag gcc tgc ggt ggt ctg acc
Ala Leu Ala Gly Phe Ala Thr Val Ala Gln Ala Cys Gly Gly Leu Thr
                                      20
                  15
gac acc ctg cag gcg gaa acc gac cag gtg gaa gac gaa aaa tcc gcg
                                                                    147
Asp Thr Leu Gln Ala Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala
                                  35
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195 ctg caa acc gaa atc gcg aac ctg ctg aaa gaa aaa gaa aag ctg gag Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu ttc atc ctg gcg gca cac ggt ggt tgc ggt ggt tct gcg gcc gct 240 Phe Ile Leu Ala Ala His Gly Gly Cys Gly Gly Ser Ala Ala Ala 65 261 gggtgtgggg atatcaagct t <210> 21 <211> 73 <212> PRT <213> Artificial Sequence <223> Description of Artificial Sequence: Fos fusion construct <400> 21 Met Lys Lys Thr Ala Ile Ala Ile Ala Val Ala Leu Ala Gly Phe Ala Thr Val Ala Gln Ala Cys Gly Gly Leu Thr Asp Thr Leu Gln Ala Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile Ala 35 Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala-Ala His Gly Gly Cys Gly Gly Ser Ala Ala Ala <210> 22 <211> 196 <212> DNA <213> Artificial Sequence <220> <223> Description of Artificial Sequence: Fos fusion construct <220> <221> CDS <222> (34)..(189) <400> 22 gaattcagga ggtaaaaaga tatcgggtgt ggg gcg gcc gct tct ggt ggt tgc Ala Ala Ser Gly Gly Cys ggt ggt ctg acc gac acc ctg cag gcg gaa acc gac cag gtg gaa gac Gly Gly Leu Thr Asp Thr Leu Gln Ala Glu Thr Asp Gln Val Glu Asp 15 gaa aaa tcc gcg ctg caa acc gaa atc gcg aac ctg ctg aaa gaa aaa 150 Glu Lys Ser Ala Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu Lys 30

gaa aag ctg gag ttc atc ctg gcg gca cac ggt ggt tgc taagctt 196 Glu Lys Leu Glu Phe Ile Leu Ala Ala His Gly Gly Cys 45 <210> 23 <211> 52 <212> PRT <213> Artificial Sequence <223> Description of Artificial Sequence: Fos fusion construct <400> 23 Ala Ala Ala Ser Gly Gly Cys Gly Gly Leu Thr Asp Thr Leu Gln Ala Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala His Gly Gly Cys 50 <210> 24 <211> 204 <212> DNA <213> Artificial Sequence <220> <223> Description of Artificial Sequence: Fos fusion construct <400> 24 gaattcagga ggtaaaaaac gatggcttgc ggtggtctga ccgacaccct gcaggcggaa 60 accgaccagg tggaagacga aaaatccgcg ctgcaaaccg aaatcgcgaa cctgctgaaa 120 gaaaaagaaa agctggagtt catcctggcg gcacacggtg gttgcggtgg ttctgcggcc 180 gctgggtgtg gggatatcaa gctt <210> 25 <211> 56 <212> PRT <213> Artificial Sequence <223> Description of Artificial Sequence: Fos fusion construct <400> 25 Lys Thr Met Ala Cys Gly Gly Leu Thr Asp Thr Leu Gln Ala Glu Thr 10 Asp Gln Val Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile Ala Asn 25 20 Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala His Gly 40 Gly Cys Gly Gly Ser Ala Ala Ala

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<210> 26
<211> 26
<212> PRT
<213> Homo sapiens
<400> 26
Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala
<210> 27
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gaattcaggc ctatggctac aggctcccgg acgtccctgc tcctggcttt tggcctgctc 60
tgcctgccct ggcttcaaga gggcagcgct gggtgtgggg cggccgcttc tggtggttgc 120
ggtggtctga ccgacacct gcaggcggaa accgaccagg tggaagacga aaaatccgcg 180
ctgcaaaccg aaatcgcgaa cctgctgaaa gaaaaagaaa agctggagtt catcctggcg 240
gcacacggtg gttgctaagc tt
<210> 28
<211> 52
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<213> Artificial Sequence
<223> Description of Artificial Sequence: Fos fusion
      construct
Ala Ala Ala Ser Gly Gly Cys Gly Gly Leu Thr Asp Thr Leu Gln Ala
Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile
Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala
His Gly Gly Cys
     50
<210> 29
<211> 261
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Fos fusion
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construct

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<220>
<221> CDS
<222> (7)..(240)
<400> 29
gaatte atg get aca gge tee egg acg tee etg ete etg get ttt gge
                                                                   48
       Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly
                                                                   96
ctg ctc tgc ctg ccc tgg ctt caa gag ggc agc gct tgc ggt ggt ctg
Leu Leu Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Cys Gly Gly Leu
                                                                   144
acc gac acc ctg cag gcg gaa acc gac cag gtg gaa gac gaa aaa tcc
Thr Asp Thr Leu Gln Ala Glu Thr Asp Gln Val Glu Asp Glu Lys Ser
                 35
gcg ctg caa acc gaa atc gcg aac ctg ctg aaa gaa aaa gaa aag ctg
                                                                   192
Ala Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu
gag ttc atc ctg gcg gca cac ggt ggt tgc ggt ggt tct gcg gcc gct
                                                                    240
Glu Phe Ile Leu Ala Ala His Gly Gly Cys Gly Gly Ser Ala Ala Ala
                             70
                                                                    261
gggtgtggga ggcctaagct t
<210> 30
<211> 78
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Fos fusion
      construct
<400> 30
Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Cys Gly Gly Leu Thr Asp
Thr Leu Gln Ala Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala Leu
         35
Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe
Ile Leu Ala Ala His Gly Gly Cys Gly Gly Ser Ala Ala Ala
<210> 31
<211> 44
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 31
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cctgggtggg ggcggccgct tctggtggtt gcggtggtct gacc	44
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<220> <223> Description of Artificial Sequence: Primer	
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<400> 34 gcttgcggtg gtctgacc	18
<210> 35 <211> 27 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Primer	
<400> 35 ccaccaagct tagcaaccac cgtgtgc	27
<210> 36 <211> 54 <212> DNA <213> Artificial Sequence	
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<400> 36	54

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<210> 37
<211> 32
<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer
<400> 37
                                                                    32
ccaccaaget taggeeteee acacceageg ge
<210> 38
<211> 29
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 38
                                                                    29
ggtgggaatt caggaggtaa aaaacgatg
<210> 39
<211> 32
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
                                                                    32
ggtgggaatt caggcctatg gctacaggct cc
<210> 40
<211> 27
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 40
                                                                    27
ggtgggaatt catggctaca ggctccc
 <210> 41
 <211> 59
 <212> DNA
 <213> Artificial Sequence
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 gggtctagaa tggctacagg ctcccggacg tccctgctcc tggcttttgg cctgctctg 59
 <210> 42
 <211> 58
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<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 42
                                                                   58
cgcaggcctc ggcactgccc tcttgaagcc agggcaggca gagcaggcca aaagccag
<210> 43
<211> 402
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Modified bee
      venom phospholipase A2
<220>
<221> CDS
<222> (1)..(402)
<400> 43
atc atc tac cca ggt act ctg tgg tgt ggt cac ggc aac aaa tct tct
                                                                    48
Ile Ile Tyr Pro Gly Thr Leu Trp Cys Gly His Gly Asn Lys Ser Ser
ggt ccg aac gaa ctc ggc cgc ttt aaa cac acc gac gca tgc tgt cgc
                                                                    96
Gly Pro Asn Glu Leu Gly Arg Phe Lys His Thr Asp Ala Cys Cys Arg
acc cag gac atg tgt ccg gac gtc atg tct gct ggt gaa tct aaa cac
                                                                    144
Thr Gln Asp Met Cys Pro Asp Val Met Ser Ala Gly Glu Ser Lys His
ggg tta act aac acc gct tct cac acg cgt ctc agc tgc gac tgc gac
Gly Leu Thr Asn Thr Ala Ser His Thr Arg Leu Ser Cys Asp Cys Asp
 gac aaa ttc tac gac tgc ctt aag aac tcc gcc gat acc atc tct tct
                                                                    240
Āsp Lys Phe Tyr Āsp Cys Leu Lys Asn Ser Āla Āsp Thr Ile Ser Ser
tac ttc gtt ggt aaa atg tat ttc aac ctg atc gat acc aaa tgt tac
                                                                    288
-Tyr Phe Val Gly Lys Met Tyr Phe Asn Leu Ile Asp Thr Lys Cys Tyr
                                      90
 aaa ctg gaa cac ccg gta acc ggc tgc ggc gaa cgt acc gaa ggt cgc
                                                                    336
 Lys Leu Glu His Pro Val Thr Gly Cys Gly Glu Arg Thr Glu Gly Arg
                                  105
 tgc ctg cac tac acc gtt gac aaa tct aaa ccg aaa gtt tac cag tgg
                                                                    384
 Cys Leu His Tyr Thr Val Asp Lys Ser Lys Pro Lys Val Tyr Gln Trp
                              120
         115
                                                                     402
 ttc gac ctg cgc aaa tac
 Phe Asp Leu Arg Lys Tyr
     130
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<211> 134
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Modified bee
      venom phospholipase A2
<400> 44
Ile Ile Tyr Pro Gly Thr Leu Trp Cys Gly His Gly Asn Lys Ser Ser
Gly Pro Asn Glu Leu Gly Arg Phe Lys His Thr Asp Ala Cys Cys Arg
Thr Gln Asp Met Cys Pro Asp Val Met Ser Ala Gly Glu Ser Lys His
Gly Leu Thr Asn Thr Ala Ser His Thr Arg Leu Ser Cys Asp Cys Asp
Asp Lys Phe Tyr Asp Cys Leu Lys Asn Ser Ala Asp Thr Ile Ser Ser
                      70
Tyr Phe Val Gly Lys Met Tyr Phe Asn Leu Ile Asp Thr Lys Cys Tyr
Lys Leu Glu His Pro Val Thr Gly Cys Gly Glu Arg Thr Glu Gly Arg
Cys Leu His Tyr Thr Val Asp Lys Ser Lys Pro Lys Val Tyr Gln Trp
                             120
        115
Phe Asp Leu Arg Lys Tyr
    130
<210> 45
<211> 19
 <212> DNA
<213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Primer
 <400> 45
                                                                    19
 ccatcatcta cccaggtac
 <210> 46
 <211> 34
 <212> DNA
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: Primer
 <400> 46
                                                                    34
 cccacaccca gcggccgcgt atttgcgcag gtcg
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<210> 47 <211> 36

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<400> cggtg	47 gttet geggeegeta teatetacee aggtae	36
<210><211><211><212><213>	19	
<220> <223>	Description of Artificial Sequence: Primer	
<400> ttagt	48 atttg cgcaggtcg	19
<210><211><211><212><213>	18	
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<400> ccggc	· 49 etccat cggtgcag	18
<210><211><211><212><213>	· 36	
<220> <223>	> Description of Artificial Sequence: Primer	
<400> accad	> 50 ccagaa geggeegeag gggaaacaea tetgee	36
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<400 cggt	> 51 ggttct gcggccgctg gctccatcgg tgcag	35
<211 <212	> 52	

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<220>
<223> Description of Artificial Sequence: Primer
<400> 52
                                                                   21
ttaaggggaa acacatctgc c
<210> 53
<211> 33
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                                                                   33 ·
actagtctag aatgagagtg aaggagaaat atc
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<211> 42
<212> DNA
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tagcatgcta gcaccgaatt tatctaattc caataattct tg
<210> 55
<211> 51
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<400> 55
gtagcaccca ccaaggcaaa gctgaaagct acccagctcg agaaactggc a
                                                                    51
<210> 56
<211> 48
<212> DNA
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<400> 56
                                                                    48
caaagctcct attcccactg ccagtttctc gagctgggta gctttcag
<210> 57
<211> 36
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
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<400> 57
                                                                    36
ttcggtgcta gcggtggctg cggtggtctg accgac
<210> 58
<211> 37
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 58
                                                                    37
gatgctgggc ccttaaccgc aaccaccgtg tgccgcc
<210> 59
<211> 46
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: JUN amino acid
      sequence
<400> 59
Cys Gly Gly Arg Ile Ala Arg Leu Glu Glu Lys Val Lys Thr Leu Lys
Ala Gln Asn Ser Glu Leu Ala Ser Thr Ala Asn Met Leu Arg Glu Gln
Val Ala Gln Leu Lys Gln Lys Val Met Asn His Val Gly Cys
.<210> 60
<211> 46
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: FOS amino
       acid sequence
<400> 60
Cys Gly Gly Leu Thr Asp Thr Leu Gln Ala Glu Thr Asp Gln Val Glu
                   5
 Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu
 Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala His Gly Gly Cys
                              40
 <210> 61
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<220>

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<223> Description of Artificial Sequence: Primer
<400> 61
                                                                   33
ccggaattca tgtgcggtgg tcggatcgcc cgg
<210> 62
<211> 39
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 62
                                                                    39
qtcqctaccc gcggctccgc aaccaacgtg gttcatgac
<210> 63
<211> 50
<212> DNA
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<223> Description of Artificial Sequence: Primer
<400> 63
gttggttgcg gagccgcggg tagcgacatt gacccttata aagaatttgg
                                                                   50
<210> 64
<211> 38
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 64
                                                                    38
cgcgtcccaa gcttctacgg aagcgttgat aggatagg
<210> 65
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 65
                                                                    33
ctagccgcgg gttgcggtgg tcggatcgcc cgg
<210> 66
<211> 38
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<223> Description of Artificial Sequence: Primer
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<400> 66 cgcgtcccaa gcttttagca accaacgtgg ttcatgac	38
<210> 67 <211> 31 <212> DNA <213> Artificial Sequence	
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<400> 67 ccggaattca tggacattga cccttataaa g	31
<210> 68 <211> 45 <212> DNA <213> Artificial Sequence	
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                                                                   48
ccgaccaccg cagccccac cggatccatt agtacccacc caggtage
<210> 73
<211> 45
<212> DNA
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<223> Description of Artificial Sequence: Primer
                                                                   45
gttggttgcg gagccgcggg tagcgaccta gtagtcagtt atgtc
<210> 74
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<223> Description of Artificial Sequence: Primer
<400> 74
                                                                    38
cgcgtcccaa gcttctacgg aagcgttgat aggatagg
<210> 75
<211> 33
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 75
                                                                    33
ctagccgcgg gttgcggtgg tcggatcgcc cgg
<210> 76
<211> 38
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<223> Description of Artificial Sequence: Primer
                                                                    38
cgcgtcccaa gcttttagca accaacgtgg ttcatgac
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<210> 77

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<223> Description of Artificial Sequence: Primer
<400> 77
                                                                    30
ccggaattca tggccacact tttaaggagc
<210> 78
<211> 38
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<223> Description of Artificial Sequence: Primer
                                                                    38
cgcgtcccaa gcttttagca accaacgtgg ttcatgac
<210> 79
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<212> DNA
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                                                                    31
ccggaattca tggacattga cccttataaa g
<210> 80
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<223> Description of Artificial Sequence: Primer
<400> 80
cctagagcca cctttgccac catcttctaa attagtaccc acccaggtag c
                                                                    51
 <210> 81
 <211> 48
 <212> DNA
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: Primer
 gaagatggtg gcaaaggtgg ctctagggac ctagtagtca gttatgtc
                                                                     48
 <210> 82
 <211> 38
 <212> DNA
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<213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Primer	
<400> 82 cgcgtcccaa gcttctaaac aacagtagtc tccggaag	38
<210> 83 <211> 36 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Primer	
<400> 83 gccgaattcc tagcagctag caccgaattt atctaa	36
<210> 84 <211> 33 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Primer	
<400> 84 ggttaagtcg acatgagagt gaaggagaaa tat	33
<210> 85 <211> 30 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Primer	
<400> 85 taaccgaatt caggaggtaa aaagatatgg	30
<210> 86 <211> 35 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Primer	
<400> 86 gaagtaaagc ttttaaccac cgcaaccacc agaag	35
<210> 87 <211> 33 <212> DNA <213> Artificial Sequence	

33

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<220>
<223> Description of Artificial Sequence: Primer

<400> 87
tcgaatgggc cctcatcttc gtgtgctagt cag

<210> 88
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Fos fusion construct

<400> 88
Glu Phe Arg Arg
1
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